UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,267	06/27/2003	Brian Jones	60001.0244US01/MS300530.1	8319

27488   7590   10/22/2007

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EXAMINER
PAULA, CESAR B

ART UNIT	PAPER NUMBER
2178	

MAIL DATE	DELIVERY MODE
10/22/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

Interview Summary	Application No.	Applicant(s)
	10/608,267	JONES ET AL.
	Examiner	Art Unit
	CESAR B. PAULA	2178

All participants (applicant, applicant's representative, PTO personnel):

(1) *CESAR B. PAULA*.

(3)_____.

(2) *CARL K. TURK*.

(4)_____.

Date of Interview: *18 October 2007*.

Type: a)☐ Telephonic   b)☐ Video Conference
     c)☒ Personal [copy given to: 1)☐ applicant   2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes   e)☒ No.
   If Yes, brief description: _____.

Claim(s) discussed: *3,5,11 and 21*.

Identification of prior art discussed: *HUYNH*.

Agreement with respect to the claims f)☐ was reached.   g)☒ was not reached.   h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *DISCUSSED DIFFERENCES BETWEEN THE PRIOR ART OF RECORD AND A PROPOSED CLAIM AMENDMENT*.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

CESAR PAULA
PRIMARY EXAMINER

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

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Fax Transmission | October 11, 2007

TO:

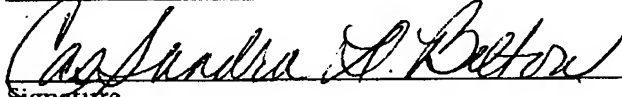|	
Examiner Cesar B. Paula Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	FROM: Carl K. Turk OUR REF NO.: 60001.0244US01 / MS#300530.1 TELEPHONE: 404-954-5100

Total pages, including cover letter: 15 (fifteen)

PTO FAX NUMBER   1-571-273-4128

If you do NOT receive all of the pages, please telephone us at 404.954.5100, or fax us at 404.954.5099.

Title of Document Transmitted: **Proposed Amendment and Response to Final Office Action dated September 27, 2007 for Interview Purposes Only**

Applicant: **Brian Jones, et al.**
Serial No.: **10/608,267**
Filed: **June 27, 2003**
Group Art Unit: **2178**
Our Ref. No. **60001.0244US01/MS300530.1**

By: _____
Name: Carl K. Turk
Reg. No.: 59,675

I hereby certify that this paper is being transmitted by facsimile to Examiner Lamont Spooner at the U.S. Patent and Trademark Office on the date shown below.

CasSandra D. Belton

_____
Signature

October 11, 2007
Date

GEN033.DOT

PROPOSED AMENDMENT AND RESPONSE FOR INTERVIEW PURPOSES ONLY

Fax To: Examiner Ceasar Paula

Fax #:   571 273 4128

Re: Proposed Amendment and Response and Interview Agenda for Application Serial # 10,608,267

Dear Examiner Paula,

The attached Proposed Amendment and Response is being faxed to you for interview purposes only. As I indicated in my voicemail to you yesterday, I am hoping we can have an in-person interview next week Thursday (11.30 am or 1.00 pm) or if that does not work for you a telephonic interview Monday or Tuesday. I will call you today to follow up on scheduling the interview.
Kind Regards,

Carl K. Turk

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S/N 10/608,267   <u>PATENT</u>

<u>IN THE UNITED STATES PATENT AND TRADEMARK OFFICE</u>

Applicant:	Brian Jones, et al.	Examiner:	Paula, Cesar B.
Serial No.:	10/608,267	Group Art Unit:	2178
Filed:	June 27, 2003	Docket No.:	60001.0244US01/MS#300530.1
Title:	LEVERAGING MARKUP LANGUAGE DATA FOR SEMANTICALLY LABELING TEXT STRINGS AND DATA AND FOR PROVIDING ACTIONS BASED ON SEMANTICALLY LABELED TEXT STRINGS AND DATA		

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

<u>AMENDMENT AND REPSONSE</u>

Dear Sir:

The present communication is in response to the Final Office Action mailed on

September 27, 2007. Entry of the following amendments and remarks is respectfully requested

as follows:

Amendments to the Claims are reflected in the listing of claims which begin on page 2 of this
paper.

Remarks begin on page 10 of this paper.

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Amendments to the Claims

1. (Cancelled)

2. (Currently Amended)   The method of Claim 3, wherein determining, in the action plug-ins, one or more actions based on the markup language data comprises:

      for each markup language element of the markup language data, parsing a namespace library for equivalent markup language elements <u>that include the one or more labels</u>;

      obtaining one or more actions associated with the equivalent markup language elements for displaying with the plurality of actions received from the plurality of action plug-ins.

3. (Currently Amended)   A computer-readable medium which stores a set of instructions which when executed performs a method for creating, editing and/or viewing an electronic document, actions on a string of text or data in the electronic document, the method comprising:

      receiving a text string that includes at least one annotated portion and at least one unannotated portion with markup language data in a recognizer dynamic link library (DLL);

      parsing markup language data associated with the at least one annotated portion to assist the recognizer DLL to determine one or more labels for the at least one unannotated portion of the text string[[;]] <u>by:</u>

            <u>comparing the elements of the markup language data with a plurality of stored markup language elements associated with stored labels to determine a match; and</u>

            <u>if a one or more markup language elements matches one or more stored markup language elements associated with stored labels, then labeling the text string with the associated stored label of the matched one or more markup language elements;</u>

      transmitting the text string, ~~and~~ the markup language data<u>, and the one or more labels</u> associated with at the least one annotated and the at least one unannotated portions to a plurality of action plug-ins<u>, wherein the action plug-ins are determined based on the one or more labels</u>;

      determining, in the action plug-ins, one or more actions based on the markup language data<u> and the one or more labels</u>;

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passing the one or more actions to an application program module for displaying the one or more actions in association with the text string; and

displaying the one or more actions in association with the text string.

4. (Cancelled)

5. (Currently Amended)   The method of Claim 3, wherein ~~the step of~~ parsing the ~~text string~~ the markup language data to determine one or more labels comprises:

comparing the text string with a plurality of stored text string with an associated stored label to determine a match; and

if ~~a~~ the text string matches a stored text string with an associated label, then labeling the text string with the associated stored label of the matched stored text string[[;]] .

~~comparing the elements of the markup language data associated with the text string with a plurality of stored markup language elements associated with associated stored labels to determine a match; and~~

~~if a one or more markup language elements associated with the text string matches one or more stored markup language elements with associated stored labels, then labeling the text string with the associated stored label of the matched one or more markup language elements.~~

6. (Cancelled)

7. (Previously Presented)   The method of Claim 3, further comprising modifying the content of an electronic document to reflect the one or more labels.

8. (Previously Presented)   The method of Claim 7, further comprising:

causing the application program module to fire an event within an object model of the application program module;

causing software instructions associated with the event to be executed when at least one of the plurality of labels is determined.

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9. (Previously Presented)   The method of Claim 3, further comprising examining the content of the electronic document surrounding the text string to aid in parsing the text string to determine a plurality of labels.

10. (Cancelled)

11. (Currently Amended)   A method for labeling a string of text in an electronic document as the electronic document is created in an application program module, the method comprising:

as a string of text having an associated one or more Extensible Markup Language (XML) elements is entered into the electronic document, determining whether the string of text matches one of a plurality of stored strings;

if so, then designating a label associated with the matched stored string for application to the entered string of text, wherein the label is to be transmitted to one or more action plug-ins for determining a set actions associated with the string of text, and wherein the action plug-ins to receive the label are also determined based on the label;

if the string of text does not match one of a plurality of stored strings, determining whether the one or more XML elements associated with the string of text is associated with a label for use with the entered string of text utilizing at least one label associated with another string in the electronic document; and

if so, then designating a label associated with the one or more XML elements for application to the entered string of text;

displaying an indication indicating that the label has been found for the string of text.

12. (Currently Amended)   The method of Claim 11, further comprising:

if a label associated with the matched stored string is designated for application to the entered string of text, determining [[a]] the set of actions associated with the label associated with the matched stored string; and

if a label associated with the one or more XML elements is designated for application to the entered string of text, determining [[a]] the set of actions associated with the label associated with the one or more XML elements.

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13. (Original) The method of Claim 12, whereby determining a set of actions associated with the label associated with the one or more XML elements, further comprises:

for each label associated with the one or more XML elements, parsing a namespace library for equivalent markup language elements;

obtaining zero or more actions associated with the equivalent XML elements for combining with the set of actions associated with the label associated with the matched stored string.

14. (Cancelled)

15. (Currently Amended)   The method of Claim 13, further comprising the steps of:
determining that a user has selected the string of text; and
in response, displaying the combined set of actions to the user.

16. (Currently Amended)   The method of Claim 15, further comprising the steps of:
receiving an indication that one of the plurality of actions has been selected; and
in response to receiving an indication that one of the plurality of actions has been selected, then causing the application program module to execute the selected action.

17. (Previously Presented) The method of claim 11, further comprising:
determining whether the one or more XML elements associated with the string of text is associated with a label for use with the entered string of text based on a label associated with another string of text adjacent to the string of text.

18. (Currently Amended)   The method recited in Claim 16, wherein the application program module executes the selected action by determining whether an action plug-in among the one or more action plug-ins in an action dynamically linked library assigned to the action is available; and
if so, then receiving instructions from the action dynamically linked library assigned to the selected action.

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19. (Currently Amended)   The method recited in Claim 18, further comprising the steps of:

if an action plug-in dynamic link library is not available, then using a Uniform Resource Locator assigned to the action to navigate to a Web site and download the action plug-in dynamic link library.

20.   (Cancelled)

21.   (Currently Amended) A system for providing helpful actions on a string of text in an electronic document as the string is entered into the electronic document, the system comprising:

a memory storage; and

a processing unit coupled to the memory storage, wherein the processing unit is configured to execute:

an application program module for creating the electronic document;

an action dynamically linked library connected to the application program module operative to provide one or more actions associated with one or more markup language elements applied to the string of text;

a namespace library associated with the application program module for providing one or more equivalent markup language elements that have been designated as equivalent to the one or more markup language elements applied to the string of text in the electronic document;

at least one recognizer dynamically linked library for providing semantic labeling to one or more portions of the string of text based on the one or more markup language elements applied to the string of text and based on one or more markup language elements associated with other strings of text in the electronic document, wherein the at least one recognizer dynamically linked library is operative

to receive the string of text,

to receive the one or more markup language elements applied to the string of text in the recognizer dynamically linked library,

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<u>to transmit the string of text and associated markup language</u>

<u>elements to a plurality of recognizer plug-ins based on the semantic labels,</u> and

wherein the action dynamically linked library is further operative to provide additional one or more actions associated with the one or more equivalent markup language elements.

22. (Currently Amended)   The system of Claim 21, wherein

~~the recognizer dynamically linked library is operative~~

~~to receive the string of text;~~

~~to receive the one or more markup language elements applied to the string~~ ~~of text in the recognizer dynamically linked library;~~

~~to transmit the string of text and associated markup language elements to a~~ ~~plurality of recognizer plug-ins;~~

the plurality of recognizer plug-ins being operative

to parse the string of text to determine a plurality of labels;

to parse the associated markup language elements to assist each of the plurality of recognizer plug-ins to determine a plurality of labels for the string of text;

to transmit the plurality of labels to the recognizer dynamically linked library; and

the recognizer dynamically linked library being further operative to transmit the plurality of labels and the associated markup language data to the application program module.

23. (Previously Presented)   The system of Claim 22,

wherein recognizer dynamically linked library is further operative prior to transmitting the plurality of labels from the recognizer plug-ins to the recognizer dynamically linked library, to transmit the string of text, the associated markup language elements and the plurality of labels back to the plurality of recognizer plug-ins; and

the plurality of recognizer plug-ins being further operative to parse the string of text, the associated markup language elements and the plurality of labels to determine a plurality of labels for the string of text not previously determined for the string of text.

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24. (Previously Presented) The method of claim 17, wherein the label associated with the string of text is an "address" label and the label associated with the other string of text is a "ZIP code" label.

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Remarks

In response to the Final Office Action mailed on September 27, 2007, the Applicants sincerely request reconsideration and reexamination of the current application in view of the above amendments to the claims and the following remarks. The response is being submitted along with a Request for Continued Examination. The claims as presented are believed to be in allowable condition.

Claims 2-5, 7-19 and 21-24 are currently pending in the present application, and have also been rejected. Claims 2, 3, 5, 11, 12, 15, 16, 18, 19, 21, and 22 have been amended. Claims 4, 10, and 14 are cancelled without prejudice or disclaimer. No new matter is added by the amendments.

Information Disclosure Statement

The Office Action states that IDSs filed on 6/22/2007 and 7/30/2007 have not been considered, because the listed entries are illegible. Clean copies of the referenced IDSs have been faxed to the Examiner and their receipt confirmed through a phone call on October 9, 2007. The Examiner is respectfully requested to indicate any IDSs that may not have been considered due to illegibility or other reason.

Interview Summary

An interview was held between the Examiner and the Applicants' attorney on _____.
THIS SECTION TO BE COMPLETED AFTER THE INTERVIEW

Claim Rejections Under 35 U.S.C. § 103

Claims 2-5, 7-19, and 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Hyunh et al.*, hereinafter Huynh, (U.S. Publication No. 2002/0198909, 12/26/2002).

Applicants respectfully submit that the cited reference, *Huynh*, was filed on June 27, 2002 and published on December 26, 2002. *Huynh* reference is assigned to the same assignee (Microsoft Corp.) as the present application. The present application has a filing date of June 27,

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2003. Thus, *Huynh* is a reference under 35 U.S.C. 102(e) cited for a 35 U.S.C. 103 rejection, and does not, therefore, preclude patentability under 35 U.S.C. 103(c). However, for the purposes of furthering prosecution, Applicants have amended pending claims as listed above and would like to have them reconsidered in light of the arguments below.

Amended independent claim 3 recites a computer-readable medium which stores a set of instructions which when executed performs a method for creating, editing and/or viewing an electronic document, actions on a string of text or data in the electronic document, where the method includes, *inter alia*, "parsing markup language data associated with the at least one annotated portion to assist the recognizer DLL to determine one or more labels for the at least one unannotated portion of the text string by comparing the elements of the markup language data with a plurality of stored markup language elements associated with stored labels to determine a match; and if a one or more markup language elements matches one or more stored markup language elements associated with stored labels, then labeling the text string with the associated stored label of the matched one or more markup language elements", "transmitting the text string, the markup language data, and the one or more labels associated with at the least one annotated and the at least one unannotated portions to a plurality of action plug-ins, wherein the action plug-ins are determined based on the one or more labels", and "determining, in the action plug-ins, one or more actions based on the markup language data and the one or more labels."

According to claim 3, markup language data associated with an annotated portion of a text string is parsed to assist the recognizer DLL to determine labels for an unannotated portion of the text string by comparing elements of the markup language data with stored markup language elements associated with stored labels and labeling the text string with stored labels of matching markup language elements. The text string, the markup language data, and the labels associated with the annotated as well as unannotated portions are transmitted to action-plug-ins based the labels and actions are determined in the action plug-ins based on the mark-up language data and the labels.

Amended independent claim 11 recites a method for labeling a string of text in an electronic document as the electronic document is created in an application program module that includes, *inter alia*, "as a string of text having an associated one or more Extensible Markup Language (XML) elements is entered into the electronic document, determining whether the

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string of text matches one of a plurality of stored strings", "if so, then designating a label associated with the matched stored string for application to the entered string of text, wherein the label is to be transmitted to one or more action plug-ins for determining a set actions associated with the string of text, and wherein the action plug-ins to receive the label are also determined based on the label", and "if the string of text does not match one of a plurality of stored strings, determining whether the one or more XML elements associated with the string of text is associated with a label for use with the entered string of text utilizing at least one label associated with another string in the electronic document."

Amended independent claim 21 recites a system for providing helpful actions on a string of text in an electronic document as the string is entered into the electronic document that includes, *inter alia*, "an action dynamically linked library connected to the application program module operative to provide one or more actions associated with one or more markup language elements applied to the string of text", "a namespace library associated with the application program module for providing one or more equivalent markup language elements that have been designated as equivalent to the one or more markup language elements applied to the string of text in the electronic document", and "at least one recognizer dynamically linked library for providing semantic labeling to one or more portions of the string of text based on the one or more markup language elements applied to the string of text and based on one or more markup language elements associated with other strings of text in the electronic document, , wherein the at least one recognizer dynamically linked library is operative to receive the string of text, to receive the one or more markup language elements applied to the string of text in the recognizer dynamically linked library, and to transmit the string of text and associated markup language elements to a plurality of recognizer plug-ins based on the semantic labels."

Hyunh discloses a method and system for semantically labeling data, such as strings of text and media objects, during creation of an electronic document and providing a selection of actions that may be performed based on the semantically labeled data" (*Huynh*: Abstract, par. 10). *Huynh* further discloses "[w]hen an application program module receives a new string, such as when the user enters a new paragraph or cell value into an electronic document or edits a previously entered paragraph, the paragraph containing the new string is passed from the application program module to a recognizer DLL. During idle time, the paragraph is passed to the recognizer plug-ins. The recognizer plug-ins are executed on the paragraph to recognize

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keywords or perform other actions defined by the recognizer plug-in. As part of executing the recognizer plug-in, the paragraph or cell value may be broken into sentences by the recognizer plug-in. However, each recognizer plug-in is responsible for its own sentence-breaking." (*Huynh*: Par. 10, 11).

Thus, elements of amended independent claims 3, 11, and 21 - such as parsing markup language data associated with an annotated portion of a text string to assist the recognizer DLL to determine labels for an unannotated portion of the text string by comparing elements of the markup language data with stored markup language elements associated with stored labels and labeling the text string with stored labels of matching markup language elements; transmitting the text string, the markup language data, and the labels associated with the annotated as well as unannotated portions to action-plug-ins based the labels; and determining actions in the action plug-ins based on the mark-up language data and the labels - are not taught or suggested by *Hyunh* or any of the heretofore cited references. Therefore, amended claims 3, 11, and 21 are in condition for allowance. Notice to that effect is respectfully requested.

Claims 2, 5, 7-9 depend from claim 3; claims 12, 13, 15-19, and 24 depend from claim 11; and claims 22-23 depend from claim 21 with additional features. Therefore, claims 2, 5, 7-9, 12, 13, 15-19, 22-23, and 24 are allowable for at least the reasons discussed above for independent claims 3, 11, and 21.

CONCLUSION

Applicants respectfully request that this Amendment be entered by the Examiner, placing the claims in condition for allowance. Applicants respectfully submit that the proposed amendments of the claims do not raise new issues or necessitate the undertaking of any additional search of the art by the Examiner, since all of the elements and their relationships claimed were either earlier claimed or inherent in the claims as examined. Therefore, this Amendment should allow for immediate allowance of all pending claims by the Examiner.

Please grant any extensions of time required to enter this amendment and charge any additional required fees to our Deposit Account No. 13-2725.

Respectfully submitted,

MERCHANT & GOULD

Date: _____, 2007

_____
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